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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/618,269	10/1/5	28	V	
				Filing Date	July 9, 2003 /				
				First Named Inventor	Sorrells, Mar	tin			
				Art Unit	2554				
1	(use as many s	heets as n	ecessary)	Examiner Name	Les Hinz	re			
Sheet	01	of	10	Attorney Docket Number	AES 03-002				

		U.S. PATE	NT DOCUMENTS	
	Document Number Number - Kind Code ² (if known	Publication Date MM-OD-YYYY	Name of Patentee or Applicant of Cited Document	Pagas, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
374	US-5,555,220 US-5,585,556 US-5,842,149 US-6,023,444 US-6,308,137B1 US-6,382,332B1 US-002/0060952A1 US- US- US- US- US- US- US- US-	09-10-1996 12-17-1996 11-24-1998 02-08-2000 10-23-2001 05-07-2002 05-23-2002	Minto, James Petersen, et al. Harrell et al. Naville, et al. Underhill et al. Eaton, Michael Cecconi et al.	

		FORI	IGN PATENT	OCUMENTS		
Examiner Initials	Cite No.1	Foreign Patent Document Country Code 3 - Number 4 - Kind Code 9 (/ known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relavant Passages or Relevant Figures Appear	T8
27 H		EP0716319A2 EP1002934A2 WO98/17894	06-12-1996 05-24-2000 04-30-1998	Petersen & Heggerne Eaton, Michael MacDonald et al.		•

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Complete if Known Substitute for form 1449B/PTO 10/618,282 Application Number INFORMATION DISCLOSURE July 9, 2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Sorrells, Martin **Group Art Unit** (use as many sheets as necessary) **Examiner Name** of 02 AES 03-002 Attorney Docket Number Sheet

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initiats	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), outhlisher, city and/or country where published	Τ2				
		Raymond L. Filler, The Acceleration Sensitivity of quartz Crystal Oscillators: A Review IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control Vol 35, No. 3, May 1988 R.C. Smythe, Acceleration Effects in Crystal Filters: A Tutorial IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control Vol 39, No. 3, May 1992 Roger W. Ward, The Constants of Alpha Quartz 14th Piezoelectric Devices Conference and Exhibits, September 15-17, 1992 John R. Vig, Introduction to Quartz Frequency Standards Army Reserach Laboratory; SLCET-TR-91-1 (Rev. 1), October, 1992 Arthur Ballato, Piezoelectricity: Venerable Effect, Modern Thrusts Army Research Laboratory; ARL-TR-70, August, 1994 Arthur Ballato, Doubly Rotated Thickness Mode Plate Vibrators US Army Electronics Technology & Devices Laboratory (reprinted from Physical Acoustics Vol XIII, 1977, Academic Press Inc.) John R. Vig, and Thrygve R. Meeker, The Aging of Bulk Acoustic Wave Resonators, Filters and Oscillators; US Army Communications-Elecronics Command, 45th Annual Symposium on Frequency Control, pp. 77-101, 1991 John A. Kustes and John R. Vig, Hysteresis in Quartz Resonators: A Review IEEE Transactions of Ultrasonics, Ferroelectrics, and Frequency Control, Vol 39, No. 3, May 1991 Errol P. Eernisse, Roger W. Ward, Robert B. Wiggins, Survey of Quartz Bulk Resonator Sensor Technologies, IEEE Transactions of Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 35, No. 3, May, 1988 R. Brendel, Influence of a Magnetic Field on Quartz Crystal Resonators IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 43, No. 5, pp. 818-831, September 1996	T2				
		Colin K. Campbell, Applications of Surface Acoustic and Shallow Bulk Acoustic Wave Devices, Proceedings of the IEEE, Vol. 77, No. 10, October 1989					

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^{&#}x27;EXAMINER: Initial if reference considered, whether or not ditation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Complet if Known Substitute for form 1449B/PTO 10/618,282 Application Number INFORMATION DISCLOSURE July 9, 2003 Filing Date Sorrells, Martin STATEMENT BY APPLICANT First Named Inventor **Group Art Unit Examiner Name** (use as many sheets as necessary) Attorney Docket Number | AES 03-002 of Sheet

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T2					
25A		George Kamas and Sandra Howe, Coordinated Universal Time (UTC) and Leap Second Time and Frequency Users Manual, NBS Special Publication 559, Chapter 2, Section 2.1, November 1979 (updated May 1997)						
		W. J. Riley, The Calculation of Time Domain Fequency Stability - a revised version of these 2 papers: A Test Suite for the Calculation of Time Domain Frequency Stability, Proc. 1995 IEEE Freq. Contrl. Symp., pp. 360-366, June 1995 and Addendum to a Test Suite for the Calculation of Time Domain Frequency Stability, Proc. 1996 IEEE Freq. Contrl. Symp., pp. 880-882, June 1996.						
		John R. Vig and Arthur Ballato, Frequency Control Devices, reprints from Ultasonic Instruments and Devices 1999, Academic Press, Inc. pp 637 - 701						
		Errol P. EerNisse, Quartz Crystals vs. Their Environment: Time Bases or Sensors?: Tutorials, IEEE, Frequency Control Reference and Tutorial Information						
		Fabien Josse and Richard W. Cernosek; Resonant Piezoelectric Devices as Physical and Biochemical Sensors; 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.						
		Leonhard M. Reindl, Wireless Passive SAW Identification Marks and Sensors; A Tutorial 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.						
		John R. Vig; Quartz Crystal Resonators and Oscillators; A Tutorial 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.						
		Michael M. Driscoll; Low Noise Oscillator Design and Performance: A Tutorial 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.						
		Jeremy K. Everard; The Fundamental Theory of Low Noise Oscillators with Special Reference to Some Detailed Designs; A Tutorial IEEE Frequency Control Symposium Tutorial, Kansas City, June 6th 2000						
		Leonard S. Cutler; Passive Atomic Frequency Standards: A Tutorial 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.						

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STATI	EMENT BY	ΔΙ	PPLICANT	First Named Inventor	Sorrells, Martin		
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Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where publisher!	Τ2
174		W. J. Riley; Rubidium Frequency Standard Technology: A Tutorial PTTI 2002 Tutorial, Reston, VA December 2, 2002	
		Lute Maleki; Advanced Atomic Clocks; A Tutorial 2000 IEEE International Frequency Control Symposium Tutorials, Kansas City June 6, 2000	
		X. Steve Yao; Photonic Techniques for Frequency and Timing: A Tutorial 2000 IEEE International Frequency Control Symposium Tutorials, Kansas City June 6, 2000	
		G. John Dick; Sapphire Microwave Frequency Sources; A Tutorial 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.	
		Eva S. Ferre-Pikal; PM and AM Noise Measurement Techniques - Part I: A Tutorial 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.	
		Craig Nelson; PM & AM Noise II: A Tutorial 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.	
		Victor S. Reinhardt; The Basics of Statistical Processes and Time and Frequency; A Tutorial. 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.	
		Don Percival; An Introduction to the Wavelet Analysis of Time Series; A Tutorial 2000 IEEE International Frequency Control Symposium Tutorials, Kansas City June 6, 2000	
		Venceslav F. Kroupa; Principles of Phase Locked Loops (PLL): A Tutorial 2000 IEEE International Frequency Control Symposium Tutorials, Kansas City June 6, 2000	
		Bob Temple; Clock Jitter - Jitter Estimation from Frequency Domain Measurements: A Tutorial. 2000 IEEE International Frequency Control Symposium Tutorials, Kansas City June 6, 2000	
		Thomas E. Parker; Introduction to Time and Frequency Transfer: A Tutorial 2002 IEEE International Frequency Control Symposium Tutorials, New Orleans, June 1, 2002.	

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Substitute f	or form 1449B/PTO			Complet if Known			
NEAS	ALATION I		OL COURT	Application Number	10/618,282		
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Examiner Ci		τ:
1721	Samuel R. Stein; Digital Measurement of Precision Oscillators; A Tutorial IEEE, Frequency Control Reference and Tutorial Information website	
	D.A. Howe, D.W. Allan, and J.A. Barnes; Properties of Oscillator Signals and Measurement Methods; A Tutorial. IEEE, Frequency Control Reference and Tutorial Information website.	
	Jack Kusters; Fundamentals of X-Ray Orientation of Quartz Crystals; A Tutorial 2000 IEEE International Frequency Control Symposium Tutorials, Kansas City June 6, 2000	
	Dan Russell; Acoustics and Vibration Animations; A Tutorial IEEE, Frequency Control Reference and Tutorial Information website	
	Time and Frequency Division 847, National Institute of Standards and Technology; IEEE, Frequency Control Reference and Tutorial Information website	
	Arthur Ballato; Transmission-Line Analogs for Piezoelectric Layered Structures: A Ph.D. Dissertations; IEEE, Frequency Control Reference and Tutorial Information website	
	Angela M. Slocum; Basic Oscillators 101 - A Guide to Specifying Timing Devices: A Tutorial. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
	Mike F. Wacker; Frequency Stability Characterization in the Time Domain: A Tutorial Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
	Mike F. Wacker; OCXO Specification Guideline with "Cost Saver Tips": A Tutorial Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
	David Chandler; Phase Jitter - Phase Noise and Voltage Controlled Crystal Oscillators: A Tutorial. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
	David R. Shaner; Precision Frequency Measurment: A Tutorial Corning Frequency Control January 5, 1998: IEEE, Frequency Control Reference and Tutorial Information website	

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Substitute t	or form 1449B/P	то		Complet If Known		
INICOL	354 A TIO	N DIG	01.001105	Application Number	10/618,282	
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STAT	EMENT	BY A	PPLICANT	First Named Inventor	Sorrells, Martin	
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Sheet	06	of	10	Attomey Docket Number	AES 03-002	

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. 1	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	γ2				
474		Dan Nehring; Specifying OCXOs for Base Stations; A Tutorial Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website William P. Hanson and Timothy E Wickard; Acceleration Sensitivity as a Function of					
. \		Temperature: A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website					
		Lynn C. Heishman; Application Notes for Doubly Rotated Quartz Crystals: A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website					
		Calibration of Time Base Oscillators; A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website					
		Timothy E. Wickard and Willima P. Hanson; The Complication of Helium Desorption in the Helium Leak Method. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website					
		Greg L. Weaver; The Use of a Computer Model to Determine the Complex Parametric Relationships of a Crystal Oscillator Circuit. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website					
		James M. Griffith; Development and Advancements in SC-Cut Crystals. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website (first presented at the RF Expo EAST, 1994).					
		Bruce R. Long; Frequency Correlation of Quartz Crystal Oscillators; A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website (first presented at the RF Expo East, 1990).					
		T. Wickard, W.P. Hanson, G.P. Bal; A New Low Profile Coldweld Package. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website (first presented at the RF Expo East, 1990).					
		G. Weaver, W/ Hanson & T. Wickard; A Insitu technique for the Resolution of Aging Contributions Between Quartz Resonators and Oscillator Circuits. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website					
		W.P. Hanson, T.R. Meeker & L.C. Heishman; A New Factor Affecting the Acceleration Sensitivity of the Resonance Frequency of Quartz Crystal Resonators. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website					

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254	N. Bates and G. Weaver; Phase Noise Frequency Distributions of SC and AT Quartz Crystal Resonators. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website G. Kurzenknabe; Practical Considerations in Specifications of High Stability Crystal Oscillators. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website W. Hanson; Proble Ion Signature in Quartz Electrodiffusion Data. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website B. Long; Quartz Crystals and Oscillators. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website B. Long and G. Weaver; Quartz Crystal Oscillators with Direct Resonator Heating. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website L. Heishman, A Review of Progress Related to Doubly Rotated Crystals. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website R. Zeigler, Jr.; Stalistical Analysis of Allan Variance, Aging, Phase Noise, and Gravitational Sensitivity of Quartz Crystal Frequency Standards. A Technical Paper. Corning Frequency Control Reference and Tutorial Information website G. Kurzenknabe; Vibrational Sensitivity and Phase Noise in Crystal Oscillators. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website V. Bottom; A History of the Quartz Crystal Industry in the USA. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website D. Chandler; A Statistical Analysis of Temperature Dependent Time Domain Phase Jitter. (MC061A1 series Bulk Acoustic Wave Quartz Crystal Oscillators). A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website					

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SJA (P. Brown; The Influence of Amateur Radio on the Development of the Commercial Market for Quartz Piezoelectric Resonators in the United States. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website H. Fanus; The Quartz Crystal Industry in Carlisle, PA. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
		I. Albright; The Effect of Temperature on Crystal Oscillators. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
		Branching out Through Band Width; Specialists in Successful Risk Analysis; and Promising Developments from a 'Virtual Drug Company'. Oak Industries Inc. featured on 'Business Now' at 9 AM Sunday, September 12, on WCVB-TV (www.batv.com). A Brief History of Corning Frequency Control. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
· \		McCoy Electronics Photographs fromt he OFC Archives. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
		McCoy Electronics Crystal Booklet (circa 1964) from the OFC Archives. A Technical Paper. Corning Frequency Control: IEEE, Frequency Control Reference and Tutorial Information website	
		S. Cantor, A. Stern & B. Levy; Clock Technology. A Technical Paper. IEEE, Frequency Control Reference and Tutorial Information website	
		Manish Vaish, A High Precision Quartz Oscillator with Performance Comparable to Rubidium Oscillators in Many Respects. A Technical Paper. 1996 IEEE Frequency Control Symposium Proceedings.	
		John R. Vig; Quartz Crystal Resonators and Oscillators for Frequency Control and Timing Applications. A Tutorial. US Army Communications - Electronics Command, AMSEL-RD-C2-PT. January, 2001. Approved for public release. Distribution is unlimited.	
l		John R. Vig; Quartz Crystal Resonators and Oscillators for Frequency Control and Timing Applications. Product Catalog and Reference Materials. US Army Communications - Electronics Command. January, 2001. Approved for public release. Distribution is unlimited.	

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STATI	EMENT BY	′ Δ	PPLICANT	First Named Inventor	Sorrells, Martin	
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	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
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JJA-		 Abramzom & R. Boroditsky; Thermodynamic Aspect of Short-Term Frequency Stability of Directly Heated Resonators. A Technical Paper. Valpey Fisher Corporation. Resource Center website. Serant; Celestica Net Income Soars 110%. Industrial Article from Daily News Digest. 					
		Valpey Fisher Corporation. Resource Center website. C. Souza; Chip Industry Still Expecting Growth in 2001. Industrial Article from Electronic					
		Buyers' News. Valpey Fisher Corporation. Resource Center website. Reuters; Conexant to Supply Motorola Broadband Unit. Industrial Article from Daily New					
		Digest. Valpey Fisher Corporation. Resource Center website. C. Souza; Component Avalanch Buries Suppliers. Industrial Article from Daily News					
		Digest. Valpey Fisher Corporation. Resource Center website. R. Shim; Bluetooth Bite Blunted by MS Pullout. Industrial Article ZD Net News.					
		Technology Summit October 8-9, 2003 Bloomberg Auditorium, London. Valpey Fisher Corporation website:					
		Absolute Pull Range Note. Valpey Fisher Corporation website.					
		Training Session - Electronics Applications of Quartz Xtal Oscillators. A Power Point presentation. Valpey Fisher Corporation. Resource Center website.					
		Training Session - Crystal Environmental Specifications. A Power Point presentation, Valpey Fisher Corporation. Resource Center website.					
		Training Session - Crystal Specifications. A Power Point presentation. Valpey Fisher Corporation. Resource Center website.					
		Training Session - Frequency Tolerance. A Power Point presentation. Valpey Fisher Corporation. Resource Center website.					

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			OL COURT	Application Number	10/618,282	
INFU	MOHAWY	DIS	CLOSURE	Filing Date	July 9, 2003	
STATEMENT BY APPLICANT				First Named Inventor	Sorrells, Martin	
•			···	Group Art Unit		
	(use as many she	eets as	necessary)	Examiner Name		
Sheet	10	of	10	Attomey Docket Number	AES 03-002	

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where publisher.	T2		
£17		Training Session - Quartz Crystal Work, An Intuitive Approach Part I and Part II. A Power Point presentation. Valpey Fisher Corporation. Resource Center website.			
		Seriers QR High Precision Timebase/Reference Crystals and QT High Precision Temperature Sensor Crystals. A technical Paper; Quartzdyne Inc.,Quartzdyne, Inc. information website			
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Examiner Signature	2-co 7- 2/23	Date Considered	26/05

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.